Program
Wednesday, Sept. 5th 2012

11:00 → Registration

19:30 WELCOME PARTY
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Chairpersons</th>
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<tbody>
<tr>
<td>10:00</td>
<td>OPENING CEREMONY</td>
<td>Hall BILJANA, Hotel METROPOLOHrid</td>
<td>Zoran Zdravkovski and Aleksandar Dimitrov</td>
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</tbody>
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| 10:30 | **DEREK FRAY**  
Dept. of Materials Science & Metallurgy, Univ. Cambridge, UK  
*Examples of synergy leading to innovations in Materials Science* | | |
| 11:15 | Coffee break                                                          |                           |                              |
| 11:30 | **EVELINA SLAVCHEVA**  
*Sputtered thin films as catalysts for hydrogen energy conversion* | | Perica Paunovic and Orce Popovski |
| 12:05 | **MAURIZIO AVELLA**  
Inst. Chemistry & Technology of Polymers, CNR, Pozzuoli, Italy  
*Current researches at ICTP-CNR on nanotechnology applications to food packaging*  
• with coworkers | | |
| 12:40 | **BILJANA PEJOVA**  
*Hydrogen induced phenomena in thin films of metal alloys and metal superlattices* | | |
| 13:10 | Break                                                                 |                           |                              |
| 13:25 | **ŽELJKO KAMBEROVIĆ**  
Fac. Technology & Metallurgy, Univ. Belgrade, Serbia  
*Synthesis of nanocomposites of different architectures and applications based on copper, nickel and alumina*  
*with coworkers* | | Ljupco Arsov and Evelina Slavcheva |
| 13:55 | **P. BROEKMANN**  
Dept. Chemistry & Biochemistry, Univ. Bern, Switzerland  
*From structure to function: Towards an atomistic understanding of the action of additives relevant for the Damascene and TSV copper plating*  
• with coworkers | | Evelina Slavcheva |

**Hall TZAR SAMOIL, Coordinators: Jadranka Blazevska-Gilev and Valentin Mirceski**

**POSTER SESSION I**

(Analytical Chemistry, Bio-, Food-, Pharma-, Textile)

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<td>14:30</td>
<td><strong>POSTER SESSION I</strong></td>
<td>Pool Plateau, Hotel BELLEVUE</td>
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Friday, Sept. 7th 2012

**Hall BILJANA, General Session III**, Chairpersons: Marina Stefova and Zeljko Kamberovic

9:00 ASHOK VASEASHTA
*Plenary Lecture PL-2*

Loaded nanofibers for safety and security

9:45 NIKOLAJČO NIKOLOV
BUČIM-mine Radoviš, R. of Macedonia
*Invited Lecture IN-7*

Copper metallurgy in the R. of Macedonia: state-of-the-art and perspectives

10:30 Coffee break

**Hall BILJANA, Session A**, Chairpersons: Vesna Dimova and Refik Zejnilović

10:45 RADEK FAJGAR
Inst. Chem. Process Fundamentals, ASCR, Prague, Czech Republic
*Invited Lecture IN-1*

Laser-induced preparation of encapsulated metal nanoparticles

11:15 ANTE GRAOVAC
Fac. Science, Univ. Split, Croatia
*Invited Lecture IN-5*

On use of the Wiener index in study of graphene and other nanostructures

11:45 A. KARAMANOV*
*Invited Lecture IN-6*

Peculiarities in the sintering behaviour and the phase formation of ceramics from pretreated MSWA

* with coworkers

**Hall O H R I D, Session B**, Chairpersons: Todor Anovski and Spiro Drushku

10:45 SLAVICA ERIC*
Fac. Pharmacy, Univ. Belgrade, Serbia
*Key-Note Lecture KN-5*

Computer-aided modeling of hormone receptor-mediated toxicity

* with coworker

11:15 TOMÁŠ KŘENEK
Res. Centre of New Technologies, Univ. West Bohemia, Plzen, Czech Republic
*Key-Note Lecture KN-2*

Laser induced synthesis of binary alloys in the gas phase

11:15 BOGDAN RANGUELOV
*Key-Note Lecture KN-4*

In-situ reflection electron microscopy of (111) silicon crystal surface

**Hall TZAR SAMOIL**, Coordinators: Sonja Ćortoševa and Mirko Marinkovski

12:30 – 16:30
*POSTER SESSION II*  
(Electrochemistry, Environment, Nanomaterials, Organic, Polymers)

15:00 – 19:00 Boat Trip to St. Naum (or other Scheduled Programs)

20:00 CONGRESS DINNER
Saturday, Sept. 8th 2012

**Hall BILJANA, General Session IV,** Chairpersons: Goran Načevski and Miomir Pavlović

10:00 **VLADA VELJKOVIĆ**
Fac. Technology, Univ. Niš, Leskovac, Serbia
*Plenary Lecture PL-3*
Perspective technologies for biodiesel production

9:45 **TODOR ANOVSKI**
Fac. Technology & Metallurgy, Univ. UKIM, Skopje, Macedonia
*Plenary Lecture PL-5*
Environmental oxygen and hydrogen isotopes in the hydrological cycle - Principles and applications

10:30 Coffee break

**Hall BILJANA, Session C,** Chairpersons: Goran Demboski and Miladin Gligorić

10:45 **THOMAS MAYERHÖFER**
Inst. Photonic Technology, Jena, Germany
*Key-Note Lecture KN-8*
Dispersion analysis

11:15 **EMILIJA FIDANCEVSKA**
Fac. Technology & Metallurgy, Univ. UKIM, Skopje, Macedonia
*Key-Note Lecture KN-9*
Influence of mechanical activation on the properties of ceramics

**Hall O H R I D, Session D,** Chairpersons: Vineta Srebrenkoska and Biljana Škrbić

10:45 **MIDHAT JAŠIĆ**
Fac. Pharmacy, Univ. Tuzla, BiH
*Key-Note Lecture KN-3*
Insight of the effects of contemporary food chemical ingredients to the human body hypersensitivity
* with coworkers

11:15 **VESNA DIMOVA**
Fac. Technology & Metallurgy, Univ. UKIM, Skopje, Macedonia
*Key-Note Lecture KN-7*
The role of QSAR in characterization of newly bioactive 1,2,4-triazole compounds, drug candidates

**Hall TZAR SAMOIL,** Coordinators: Zaga Koneska and Elena Tomova

12:00 – 15:00 **POSTER SESSION III**
(Inorganic, Metallurgy, Process Engineering, Spectroscopy/Structure, Miscellaneous)

15:00 **CONGRESS CLOSURE**

15:00 → **SPECIAL TOURS**
Sunday, Sept.9th 2012

9:00 → Technical and Sightseeing tours
S P O N S O R S

The 22nd Congress of SCTM was financially supported by:

PREZEMI GO TEKSTOT SO LOGOI OD 2 str. na KNIGATA
University “Ss. Cyril & Methodius” Skopje
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